

### KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

### PERMIT APPLICATION

This is an application to: (check of	one)	A complete application consists of this form and one of the		
Apply for a new permit.		following:		
Apply for reissuance of exp	piring permit.	Form A, Form B, Form C, Form F, or Short Form C		
Apply for a construction pe				
Modify an existing permit.		For additional information contact:		
Give reason for modification	on under Item II.A.	KPDES Branch (502) 564-3410		
GIVO I GALLONI I OLI I I I I I I I I I I I I I I I I		AGENCY O O O O U C O		
I. FACILITY LOCATION AN	D CONTACT INFORMATION	USE 0 0 7 7 7 7		
A. Name of business, municipality, comp Louisville & Jefferson County Metropolity	any, etc. requesting permit tan Sewer District			
B. Facility Name and Location		C. Facility Owner/Mailing Address		
Facility Location Name:		Owner Name:		
		Metropolitan Sewer District		
Chenoweth Hills STP	d ata):	Mailing Street:		
Facility Location Address (i.e. street, road	u, etc.).	Maning Succe.		
4305 St. Rene Court		700 West Liberty Street		
Facility Location City, State, Zip Code:		Mailing City, State, Zip Code:		
Louisville, Kentucky 40299		Louisville, Kentucky 40203		
Louisvine, Rentucky 10255		Telephone Number:		
		(502) 564-6000		
II. FACILITY DESCRIPTION	<u> </u>			
A. Provide a brief description of	f activities, products, etc: Residen	tal & Commercial Wastewater Treatment (non-industry);		
Publically owned treatment	Works			
B. Standard Industrial Classifica	tion (SIC) Code and Description			
Principal SIC Code &	-			
Description:	6552; Land Subdivision & Land	Development		
Other SIC Codes:	4952; Sewage Treatment Fac.			
III. FACILITY LOCATION				
A. Attach a U.S. Geological Sur	vey 7 ½ minute quadrangle map fo	r the site. (See instructions)		
B. County where facility is locat		City where facility is located (if applicable):		
Jefferson		Louisville		
C. Body of water receiving disch	narge:			
Unnamed tributary at mile point	0.4 to unnamed tributary at mile p	oint 0.5 to Chenoweth Run at mile point 3.4		
D. Facility Site Latitude (degree		Facility Site Longitude (degrees, minutes, seconds):		
38° 10' 46"	-,,,	85° 33′ 31″		
30 10 10				
E. Method used to obtain latitud	e & longitude (see instructions).	USGS Topographic Map		
E. Method used to obtain latitud	e & fongitude (see mistractions).	0000 10100 0100		
E Facility Dun and Bradstreet N	Number (DUNS #) (if applicable):			
r. racinty Dun and Bradstreet N	$\frac{1}{2}$			

11 1
rally owned
s and number below.
s and number below.
rent Permit:
t Number:
zy?
NEEDED WITH
PPLICATION DATE
defined by the KPDES
designate as responsible
ection I.)

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VII.	APPI	JE A	THE	ни	INC	H H, H,

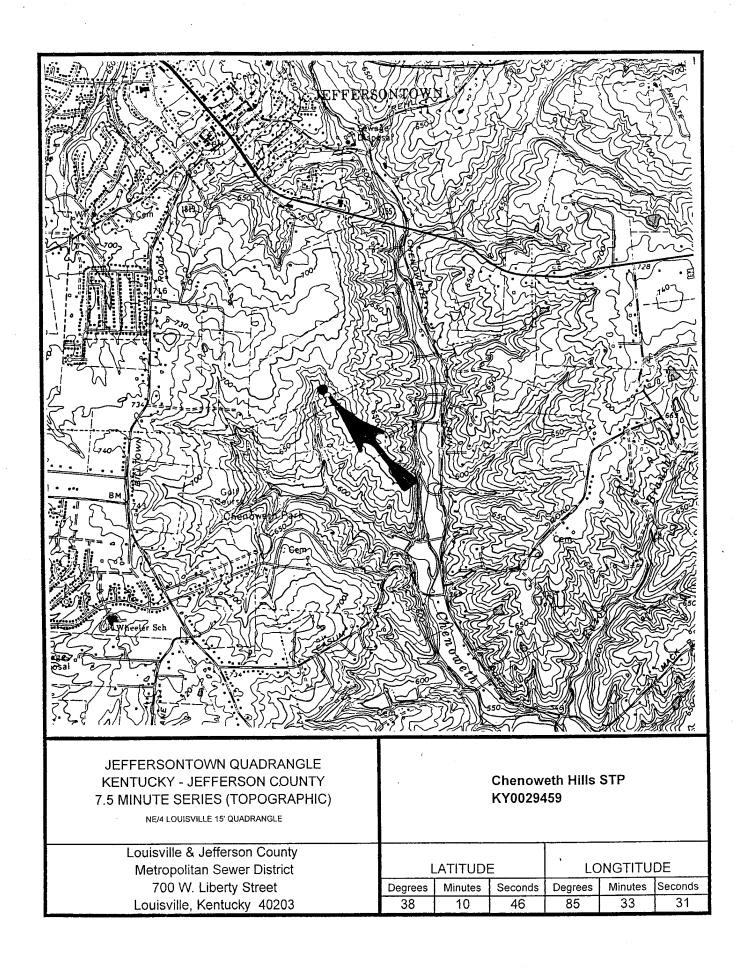
KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:	Filing Fee Enclosed:
Public Owned Treatment Works (No Fee Due)	N/A

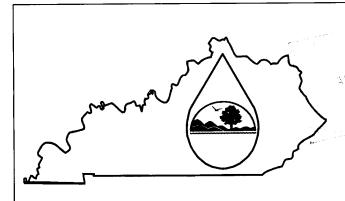
### VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Herbert J. Schardein, Jr Executive Director	(502) 540-6000
SIGNATURE	DATE:
Swel guth:	08.23.07
for HJ Schending of.	



### **KPDES FORM SC**



NAME OF FACILITY: Chenoweth Hills STP

### KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

### **PERMIT APPLICATION**

A complete application consists of this form and Form 1. For additional information, contact: KPDES Branch, (502) 564-3410.

I. FACILITY DIS	CHARGE FR	REQUENCY			USE	0	0	2	9	4	5	7
A. Do discharge(s) (Complete Item I	occur all year' X for intermit	? Yes ⊠ tent discharge	No 🗌									
B. How many days	per week?	7										
II. A. Give the basis Residential Connec Commercial Conne Industrial Connection	tions: 661 ctions: 1	sizing of the	wastewater fa	cility (se	e instructions):							
B. If new discharge	er, indicate ant	icipated disch	arge date:									
C. Indicate the design capacity of the treatment system:				(	0.200 MG	D					_	
III. Outfall Locat	ion (see instr	uctions)										
Outfall		LATITUDE			LONGITUDE							
(list)	Degrees	Minutes	Seconds	Degre	es Minutes	Se	conds	_		ING WA	_	
001	38	10	46	85	Unnamed tributary at mile to unnamed tributary at mile to unnamed tributary at mil 0.5 to Chenoweth Run at m			nile				
								3.4	1			
												<u>-</u>
		-										
							-					
Method used to ob	tain latitude/lo	moitude	I									

	Operation (list)	(include units)	List treatment components	1 4010 50-1
001	Sanitary Wastewater	0.233/0.200	Manual Bar Screen	1-T
		0.233/0.200	Activated Sludge	3-A
		0.233/0.200	Aerobic Digestion	5-A
		0.233/0.200	Disinfection Chlorine	2-F
		0.233/0.200	Dechlorination	2-Е
		0.233/0.200	Discharge	4-A
<del></del>	loncontact cooling water water used at facility (except for human c	Other (list		] No
II. Dischar	ge to other than surface waters. Check ap	propriate location:		
☐ P	bublicly-owned lake or impoundment	Name of lake:		
☐ P	Publicly-owned treatment works (POTW).	Name of POTW:		
□ I	and application of Effluent			
	Surface injection (Check term and identify o	n map) 🗌 lateral fiel	d; ☐ sinkhole; ☐ sinking stream;	deep well
	Closed Circuit (Check appropriate term)	] Holding tank; [] M	echanical evaporation;  Waste is	mpoundment
VIII. Check t	he metals present in the discharge if appl	icable and indicate t	he quantity discharged per year.	(Indicate units).
	Antimony N/A  Arsenic N/A  Beryllium N/A  Cadmium N/A	Copper N/A Lead N/A Mercury N/A Nickel N/A	Thalliu Zinc	N/A m N/A N/A

Avg/Design

Flow

IV. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (see instructions)

If wastewater other than domestic or sanitary is listed, complete page 4 in addition to page 1 and 2.

OPERATION(S) CONTRIBUTING FLOW

Operation (list)

OUTFALL NO.

(list)

TREATMENT

List treatment components

List Codes from

Table SC-1

IX. INTERMITTENT DISCHARGES (Co	mplete this	section fo	or intermittent dischar	rges.)		
			pass points are indicat ach bypass.)	ed, information	below must be completed	
Check when bypass occurs:		☐ Wet	Weather		Dry Weather	
Give the number of bypass incidents		<u>-</u>	per year		per year	
Give average duration of bypass			hours		hours	
Give average volume per incident			1,000 gallons		1,000 gallons	
Give reason why bypass occurs:						
B. Number of Overflow Points: 0 (If discha	rge is from a	n overflov	w point, the information	n below must be	e completed.)	
Check when overflow occurs:	<u> </u>	☐ Wet	Weather		Dry Weather	
Give the number of overflow incidents:			per year		per year	
Give average duration of overflow:			hours		hours	
Give average volume per incident:	<u></u>		1,000 gallons		1,000 gallons	
C. Number of seasonal discharge points		0				
Give the number of times discharge occur	s per year					
Give the average volume per discharge oc	currence	(	1,000 gallons)			
Give the average duration of each discharge	ge	((	(days)			
List month(s) when the discharge occurs						
X. AREA SERVED (see instructions) NAME			ACTU	AL POPULAT	TION SERVED	
Residential Connections		661				
Commercial Connections		1				
Industrial Connections			0			
TOTAL POPU	JLATION S	ERVED	662 Connections		_	

### (PLEASE COMPLETE THIS PAGE IF OTHER THAN DOMESTIC WASTEWATER IS DISCHARGED)

I. COOLING WATER ADDITIVES AND THEIR COMPOSITIONS N/A						
Additive	Composition	Concentration (mg/l)				

XII. EFFL	UENT CHARACTERISTICS (Note NA listed below, testing for the pollutant(s) is not appropriate for effluent) Not
required or	a last permit (DMR)

A. Indicate results of analysis for	pollutants listed below.			
POLLUTANT/PARAMETER	MAX DAILY VALUE	MAX DAILY VALUE AVG DAILY VALUE		
BOD <sub>5</sub> (CBOD5)	20 mg/l	4.0 mg/l	186	
TOTAL SUSPENDED SOLIDS	21 mg/l	6.48 mg/l	186	
FECAL COLIFORM	74 (#/100 ml)	7.30 (#/100ml)	188	
TOTAL RESIDUAL CHLORINE	<0.01 mg/l	Not required	80	
OIL AND GREASE	NA	NA		
CHEMICAL OXYGEN DEMAND	NA	NA		
TOTAL ORGANIC CARBON	NA	NA		
AMMONIA	16.4 mg/l	1.23 mg/l	186	
DISCHARGE FLOW	0.836 MGD	0.233 MGD	Continuous	
РΗ	7.6 SU	6.4 SU (minimum)	80	
TEMPERATURE (WINTER)	taken with pH not recorded	not required on DMRs		
TEMPERATURE (SUMMER)	taken with pH not recorded	not required on DMRs		

B. Frequency and duration of flow:	Continuous

### XIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Herbert J. Schardein, Jr. Executive Director	(502) 540-6000
SIGNATURE	DATE

4

### (PLEASE COMPLETE THIS PAGE IF OTHER THAN DOMESTIC WASTEWATER IS DISCHARGED)

XI. COOLING WATER ADDITIVE Additive	Compositi		Concentration (mg/l)					
Additive	Compositi							
XII. EFFLUENT CHARACTERIS	TICS N/A							
A. Indicate results of analysis for pollutants listed below.								
POLLUTANT/PARAMETER	MAX DAILY VALUE	AVG DAILY VALUE	NUMBER OF SAMPLES					
DOD								
BOD <sub>5</sub>								
TOTAL SUSPENDED SOLIDS								
FECAL COLIFORM								
TOTAL DECIDINAL CHI ODINE								
TOTAL RESIDUAL CHLORINE								
OIL AND GREASE								
CHEMICAL OXYGEN DEMAND								
TOTAL ODGANIC CAPPON								
TOTAL ORGANIC CARBON								
AMMONIA								
DISCHARGE FLOW								
p.I.I.								
РН								
TEMPERATURE (WINTER)								
TEMPERATURE (SUMMER)								
	1							
B. Frequency and duration of flow:								
B. Trequency and duration of now.								
XIII. CERTIFICATION		, , , , , , , , , , , , , , , , , , , ,						
I certify under penalty of law that the with a system designed to assure that	is document and all attachments	were prepared under my direction	tion or supervision in accordan					
of the person or persons who manage	the system, or those persons di	rectly responsible for gathering	the information, the information					
submitted is, to the best of my know	ledge and belief, true, accurate,	and complete. I am aware that	there are significant penalties					
submitting false information, includir	ng the possibility of fine and impr	isonment for knowing violation	ns.					

NAME AND OFFICIAL TITLE (type or print):

Herbert J. Schardein, Jr. Executive Director

SIGNATURE

DATE

OB. 223.07

### **KPDES Permit Application Attachments**

# Chenoweth Hills KY0029459 REPORTED DISCHARGE AND EXISTING LIMITS SUMMARY

Description of Discharge - Outfall Number 001 - Wastewater Treatment Plant (Effluent Requirements)

Total Phosphorus (as mg/l P)	Total Residual Chlorine, $mg/l$	pH, standard units	Dissolved Oxygen (mg/l)	Ammonia (as mg/l N), Summer Winter	TSS (mg/l) Fecal Coliform (#/100 ml)	Flow, MGD (Design Flow = 0.200 MGD) CBOD <sub>5</sub> (mg/l)	Effluent Characteristics
3.11	N/R	N/R	N/R	1.23	6.48 7.30	0.233 4.0	Repor Average Annual Value
0.88	N/R	6.4	7.0	0.03	н н	0.054 1	Reported Discharge age Lowest al Monthly e Value
5.74	<0.01	7.6	N/R	16.4	21 74	0.836 20	<u>Highest</u> <u>Monthly</u> <u>Value</u>
Report	0.011	6.0 (min)	Not less than 7	10	30 200	Report 30	Existing Limits  Monthly Weekl  Average Avera
Report	0.019*	9.0 (max)	an 7	20	<b>4</b> 00	Report 60	Weekly Average
401 KAR 5:065, Section 2(8)	KAR	KAR	401 KAR 5:031,	401 KAR 5:031, Section 4		401 KAR 5:065, 401 KAR 5:031, 401 KAR 5:045,	Applicable Criteria an Guidelines
Section 2(8)	Section 4		Section 4 Section 3	Section 4	KAR 5:045, Section 3 KAR 5:031, Section 7 KAR 5:045, Section 4 KAR 5:080, Section 1(2)(c)2	Section 2(8) Section 4 Sections 3 and 5	Applicable Water Quality Criteria and/or Effluent Guidelines

### Receiving Water Use Classification:

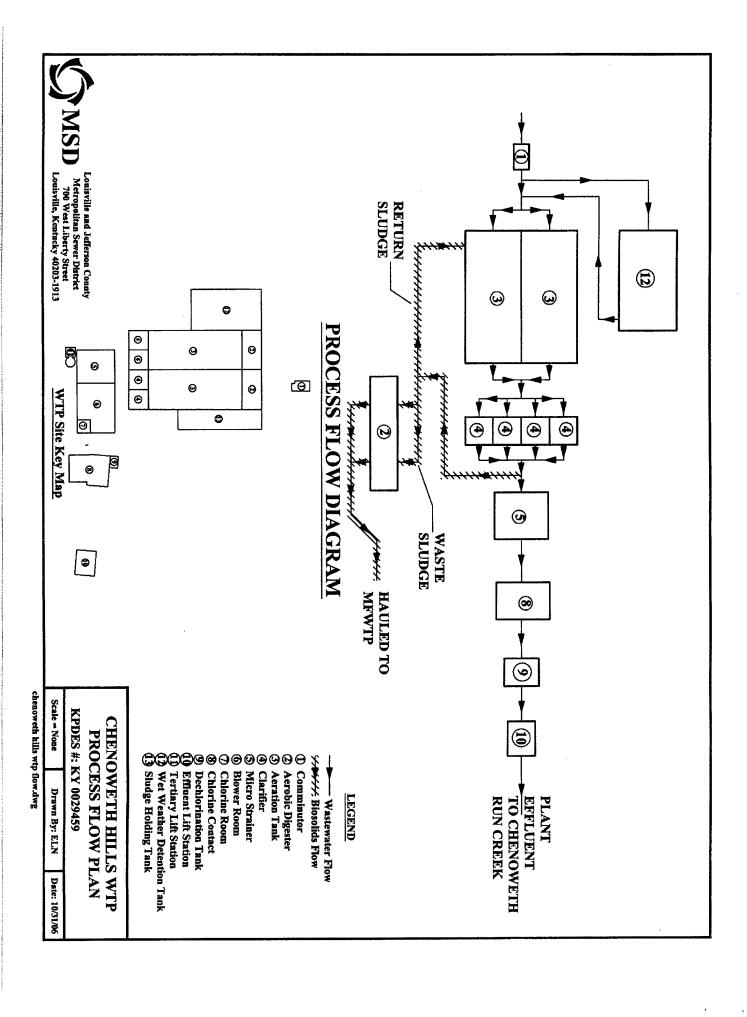
plan with an estimated elimination of Chenoweth Hills pending completion of the Billtown Road Interceptor Project other permitted small flows discharges; livestock (grazing or feeding operations); unspecified urban stormwater. Chenoweth Run (Mile 0.0 - 5.2) is listed on Kentucky's 2006 Draft 303(d) list of impaired for partial support of aquatic life and non support for Primary Contact Recreation use. Pollutants of concern are Pathogens, and Nutrient/Eutrophication Biological treatment plant and send flow to the Cedar Creek wastewater treatment plant. interceptor project (Billtown Road STP is meeting its KPDES permit requirements and should not contribute to additional degradation. Indicators. Sources are landfills; municipal (urbanized high density area); municipal point source discharges; package plant or Interceptor Sanitary Sewer Project) that will eliminate the Chenoweth Hills wastewater This project is in the current five (5) year capital MSD has identified a potential Chenoweth Hills

Reported Discharge values were compiled from DMR data, starting with August 2003 - July 2007.

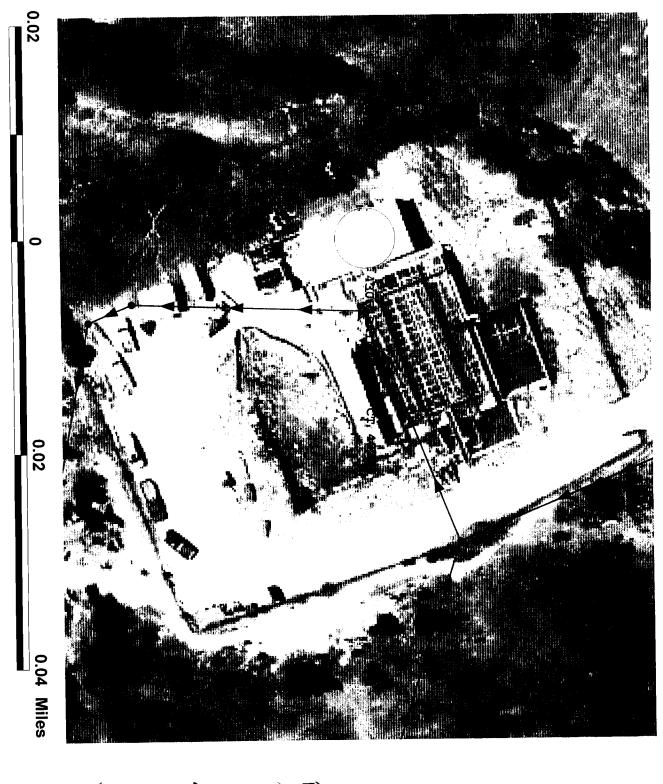
The abbreviation N/R means Not Reported

The abbreviation  $CBOD_5$  means Carbonaceous Biochemical Oxygen Demand (5-day).

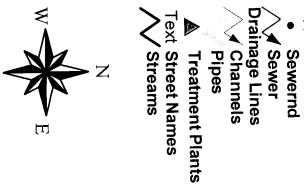
Daily Max



## KY0029459 Chenoweth Hills STP



Sample Locations





Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.msdlouky.org

October 30, 2007

Division of Water, KPDES Branch ATTN: Ms. Sara Beard 14 Reilly Road, Frankfort Office Park Frankfort, Kentucky 40601

Subject: Application Form SC Section XII KPDES No. KY0029459

Chenoweth Hills Wastewater Treatment Plant

Dear Ms. Beard:

Enclosed is the completed Section XII of Form SC for Chenoweth Hills Wastewater Treatment Plant KPDES permit KY0029459. MSD request that Division of Water waive the requirements to test for Oil & Grease, Chemical Oxygen Demand, and Total Organic Carbon. Based on the influent wastewater received at this facility testing for these pollutants is not appropriate for the effluent. Temperature is taken during the sampling of pH but is not recorded on Discharge Monitoring Reports. During the reissuance of the permit for Chenoweth Hills MSD will implement procedures to capture winter and summer temperature readings.

If you have any questions please contact me at (502) 540-6980 or at talley@msdlouky.org.

Sincerely,

Daymond M. Talley Regulatory Engineer

DMT/dmt

cc:

D. Guthrie

A. Akridge

D. Thomasson

D. Talley

J. Porter

M. Jenkins

R. Shaw (eB)





Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.msdlouky.org

August 23, 2007

Vickie L. Prather, Acting Supervisor Division of Water Inventory and Data Management Section **KPDES Branch** 14 Reilly Road Frankfort, Kentucky 40601

Subject: Renewal Application KPDES No. KY0029459

Chenoweth Hills Wastewater Treatment Plant

Dear Ms. Prather:

Enclosed are the completed applications (Form 1 and Form SC) for the renewal of Chenoweth Hills Wastewater Treatment Plant KPDES permit KY0029459.

If you have any questions please contact Daymond Talley at (502) 540-6980 or at talley@msdlouky.org.

Sincerely,

Herbert J. Schardein, Jr.

**Executive Director** 

HJS/dmt

cc:

D. Guthrie

A. Akridge

D. Thomasson

D. Talley

J. Porter

R. Shaw (eB)

M. Jenkins



ERNIE FLETCHER
GOVERNOR

### **ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**

TERESA J. HILL SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

July 30, 2007

AUG 2 4 2007
SECOND NOTICE

Mr. Daymond Talley Lou/Jefferson Co. MSD 700 West Liberty Street Louisville, Kentucky 40203-1913

RE: KPDES No. KY0029459
Chenoweth Hills Wastewater Treatment Plant
Jefferson County, Kentucky

Dear Mr. Talley:

Our records indicate that your Kentucky Pollutant Discharge Elimination System (KPDES) permit is due to expire on February 29, 2008. According to the KPDES Regulation 401 KAR 5:060, "any person with a currently effective permit shall submit a new application at least 180 days before the expiration of the existing permit..." The due date for your permit renewal application is September 5, 2007.

Please complete the enclosed application forms and return to the KPDES Branch, Division of Water, at the above address by the indicated due date. Applications received after the due date are in violation of 401 KAR 5:060, Section 1, which could result in enforcement action being taken.

If you have any questions regarding the completion of these forms, please contact me at (502) 564-8158, extension 470, or Ann Workman at extension 528.

Sincerely, Ann S Workman

Vickie L. Prather, Acting Supervisor

Inventory and Data Management Section

KPDES Branch
Division of Water

VLP:ASW:asw

Enclosures

C: Louisville Regional Office Division of Water Files





ERNIE FLETCHER
GOVERNOR

### ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

TERESA J. HILL SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

November 29, 2007

Daymond Talley Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203

> Re: KPDES Application Complete KPDES No.: KY0029459 Chenoweth Hills WWTP AI ID: 1992 Activity ID: APE20070001 Jefferson County, Kentucky

Dear Mr. Talley,

Your revised Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on November 2, 2007. A completeness review of your permit application has been conducted. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. In accordance with 401 KAR 5:075, Section 1(7) you are being provided written notification that your application has been deemed complete as of the date of this letter.

If you have any questions concerning this matter, please call me at (502) 564-8158, extension 590.

Sincerely,

Sara Beard

**Environmental Engineer Assistant III** 

KPDES Branch Division of Water

SJB

Enclosures

c:

Louisville Regional Office Division of Water Files

